Consumer Confidence Report - 2012

City of Great Falls Public Drinking Water Supply

P.O. Box 5021, Great Falls, MT 59403 Phone (406) 727-1325

This report is prepared annually by the City of Great Falls Water Utility. Its purpose is to evoke confidence in the quality of our municipal drinking water. Please take a few minutes to review it and feel free to call us with any questions.

The source of our water

The drinking water used by the residents of Great Falls, Malmstrom Air Force Base and Black Eagle is water that was pumped from the Missouri River and treated to make it safe to drink. The water treatment facility is located just upstream from the Missouri's confluence with the Sun River in Great Falls.

Water treatment and purification

Great Falls utilizes a conventional water treatment process, producing on average 4.5 billion gallons of safe drinking water per year. The process is monitored continuously and samples of treated water are collected and analyzed. Only after careful scrutiny is water allowed to flow through underground water mains to reservoirs for use in homes and businesses.

City water personnel stay abreast of new Federal and State drinking water regulations as they are written so that treatment and/or monitoring changes can be implemented as needed in a timely and cost-effective manner. The City is committed to the goal of providing its citizens with a safe and dependable supply of drinking water. This goal was achieved during 2012 by operating without any violations, exemptions or variances regarding water quality.

Are there contaminants in our source water?

Water that precipitates from the atmosphere flows across the surface of the land or percolates through the soil. Naturally occurring minerals dissolve and waste substances produced by plants, animals and humans are picked up. The water then either becomes groundwater or makes its way to a stream, river, pond, lake or reservoir. This accumulated water can then be used as a drinking water source.

Contaminants that may need to be removed from a source water before it can be considered safe to drink include:

- microbial contaminants, including viruses, bacteria and protozoa. These can originate from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- inorganic contaminants, such as salts and metals. These can be naturally occurring or the result of urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- pesticides and herbicides. These may come from a variety of sources including agriculture, urban storm water runoff and residential uses.
- organic chemical contaminants, including synthetic and volatile organic chemicals. These are by-products of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff and septic systems.

• radioactive contaminants. These can be naturally occurring or the result of oil and gas production or mining activities.

Montana's Department of Environmental Quality (DEQ) completed and made available the Great Falls source water delineation and assessment report. This report delineates a source water protection area for Great Falls (an area of surface water and land that contributes water to the Great Falls Public Water Supply). It also identifies locations or regions within this area where contaminants might be generated, stored or transported and addresses their relative potential for contaminating Great Falls drinking water. The report can be used to develop a source water protection plan for Great Falls.

Do I need to take special precautions?

The Environmental Protection Agency diligently establishes regulations setting allowable limits for contaminants in drinking water delivered by public water systems. The Food and Drug Administration regulates contaminants in bottled water, affording equivalent protection to public health. Any drinking water may be reasonably expected to contain allowable amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily mean the water will pose a health risk. Detailed information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or our local City-County Health Department (454-6950).

Certain people may be more vulnerable to contaminants in drinking water than the general population. For example, immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, persons having HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections caused by certain microbiological contaminants. These people should seek advice about their drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

How can I become involved?

You can learn more about your local water utility by attending any of the regularly scheduled City Commission meetings on the first and third Tuesdays of every month at 7:00 p.m. in the Commission Chambers at the Great Falls Civic Center. You may also arrange a tour of the local water treatment plant by calling 727-1325. Regulatory updates and other interesting information can be found by visiting the American Water Works Association web site at http://www.awwa.org.

Questions & Answers

Q: How often is our drinking water tested?

A: The type and frequency of testing required is based on the water's source and the number of people served. Great Falls is classified as a medium-sized (between 50,000 and 100,000 served) surface water (Missouri River) community public water supply. As such, Great Falls is required to monitor the levels of some drinking water constituents, such as disinfectant residual, continuously while other constituents, such as radionuclides, are required to be tested only once every several years. The data presented in the tables contained in this report are the results from the most recent testing done in accordance with the applicable regulations.

Q: Why does the water coming out of my tap look milky sometimes but then clear up in my glass after a few seconds?

A: The water coming into your home may contain harmless dissolved gases (air) held in solution by the pressure of the water system. As the water leaves the tap the pressure rapidly decreases causing millions of tiny air bubbles to be suspended in the water, producing the milky appearance. The water then clears from the bottom of the container as the air bubbles rise and return to the atmosphere.

Q: How hard is Great Falls water?

A: Great Falls water is classified as moderately hard, ranging from 127 to 167 milligrams per liter (7.4 to 9.8 grains per gallon) as calcium carbonate. Some households install water softeners as a matter of personal preference but softening is generally not necessary.

Some Facts About Water

Of the 326 million cubic miles of water on earth, 97% is seawater. Of the remaining 3%, 77% is frozen and 22% is underground. This leaves each person on our planet enough liquid fresh surface water to fill a cube 130 feet on a side. But the water is not evenly distributed and is in constant demand.

One gallon of water weighs about 81/3 pounds.

Average total water use (both indoor and outdoor) for a typical single-family home is about 125 gallons per person per day.

You can fill an 8-ounce glass with drinking water 15,000 times for the same cost as a six-pack of soda.

You can survive about a month without food, but only 5 to 7 days without water.

Water Analysis Data

The data tables on the next several pages contain terms and abbreviations with which you may be unfamiliar. In order to help you better understand this data we offer the following definitions and explanations:

parts per million (ppm) or milligrams per liter (mg/l) - one part per million is equivalent to one minute in two years or one penny in \$10,000.

parts per billion (ppb) or micrograms per liter (μ g/l) - one part per billion is equivalent to one minute in 2,000 years or one penny in \$10,000,000.

picocuries per liter (pCi/l) - a measure of radioactivity in water.

millirems per year (mrem/yr) - a measure of radiation exposure. In the United States, the average person is exposed to an effective dose equivalent of approximately 360 mrem (whole body exposure) per year from all sources.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Water having turbidity in excess of 5 NTU would appear noticeably cloudy to the average person.

Maximum Contaminant Level Goal - the "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level - the "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Residual Disinfection Level Goal or MRDLG - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum Residual Disinfection Level or MRDL - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

The City of Great Falls routinely monitors for contaminants in drinking water according to Federal and State laws. The four data tables included in this report document the test results from monitoring during the period January 1st through December 31st, 2012. The State of Montana requires monitoring for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore some of the following data, though representative, are more than one year old. The tables are arranged as follows:

Table I. Regulated Contaminants Detected
Table II. Unregulated Contaminants Detected
Table III. Regulated Contaminants Not Detected
Table IV. Unregulated Contaminants Not Detected

Additional report copies are available free of charge from the Great Falls Water Treatment Plant. An electronic copy can be found at http://www.greatfallsmt.net/sites/default/files/fileattachments/ccr_2012.pdf
If you have any questions about this report or your water utility contact Tammy Filliater at (406) 727-1325.

Table I. Regulated Contaminants Detected									
Contaminant	Likely Source of Contamination	Unit of Measurement	MCL	MCLG	Date Sampled	Level Detected	Violation (yes/no)		
Arsenic	erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	ppm	.01	0	1/11/12	.001	no		
Fluoride	erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	ppm	4	4	1/11/12	0.5 (all of it naturally- occurring)	no		
Nitrate plus Nitrite (as Nitrogen)	runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	ppm	10	10	1/11/12	0.24	No		
Lead** Note: In a sample collected 2/22/10, no lead was detected in the treated water as it left the water treatment plant.	corrosion of household plumbing systems; erosion of natural deposits	ppb	AL = 15 90 th percentile level must be less than 15	0	30 tests from high- risk homes during July, August and September, 2010	5 @ 90 th percentile. One site was ≥ 15 ppb	No		
Copper** Note: In a sample collected 2/22/10, no copper was detected in the treated water as it left the water treatment plant.	corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	ppm	AL = 1.3 90 th percentile level must be less than 1.3	1.3	30 tests from high- risk homes during July, August and September, 2010	0.38 @ 90 th percentile. One site exceeded 1.3 ppm	No		

**If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Great Falls Water Treatment Facility is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or at http://www.epa.gov/safewater/lead.

Turbidity*	soil runoff	NTU	TT = 1 NTU	0	throughout	0.19	No
Turbidity is a measure of the			maximum		the year,	maximum	
cloudiness of the water. It is					every four	for 2012	
monitored because it is a					hours	4/13/12	
good indicator of the		NTU	TT < 0.3 NTU	0	through	< 0.3	No
effectivenessof the water			95% of the		9/30/12,	100% of	
filtration system.			time		every four	the time	
					hours		
*New guidelines were		NTU	TT < 0.15	0	10/01/12 through	< 0.15	No
implemented in October			NTU 95% of		the	100% of	
2012 that changed the			the time		end of the year,	the time	
MCL from < 0.03 to < 0.15					every four hours		
95% of the time.							
Radionuclides				•			
Beta particles/photon	decay of natural and man-made	mrem/yr	4	0	2/23/99	2.7 (± 2.7)	No
emitters	deposits					pCi/l gross beta	
Gross Alpha	erosion of natural deposits	pCi/l	15	0	7/28/08	3.8	No
Radium 226 + Radium 228	erosion of natural deposits	pCi/l	5	0	7/28/08	0.1	No
Disinfectants			•				
Chlorine	water additive used to control	ppm	MRDL=4	MRDLG=4	continuously	0.08 to 1.98	No
	microbes						
Chloramines [†]	water additive used to control	ppm	MRDL=4	MRDLG=4	continuously	0.08 to 1.98	No
	microbes				_		
÷			•		•		

[†]The primary disinfectant used in Great Falls is free chlorine. Through the addition of ammonia, monochloramine is formed just before the water exits the treatment plant. Monochloramine does not dissipate as readily as free chlorine and thus helps in maintaining disinfection at the far edges of the distribution system. Compared to free chlorine, monochloramine is a weak oxidizer and so minimizes disinfection by-product formation. Total chlorine levels were checked at the treatment plant and throughout the distribution system on a daily basis during 2012 and at no time exceeded the MRDL or the MRDLG. Levels ranged from a low of 0.08 ppm in the distribution system to a high of 1.98 ppm in water leaving the treatment plant.

Contaminant	Likely Source of	f Contamination		MCL	MCLG		Date	Level	Violation
(Table I. continued) Microbiological Conta	minante		Measurement			S	ampled	Detected	(yes/no)
Total Coliform	naturally prese	nt in the	% positive	5%	0	Т	hroughout	1.4% in	no
10mi Comoini	environment		samples per	Per month			The year, October;		110
	environment		month	1 Ci montii			0/month	0% all	
			111011111				0,111011111	Other	
								Months	
Disinfection By-Produ	cts (DBPs) –	through 3 rd	Quarter 2012						
TTHMs	by-product of o		ppb	80	N/A	quarte	erly	see table	no
(total trihalomethanes)	disinfection	C	**	run. ann. avg.		1	3	below	
HAA5s	by-product of	drinking water	ppb	60	N/A	quarte	erlv	see table	no
(five haloacetic acids)	disinfection	C	11	run. ann. avg.		1	3	below	
TTHM Summary	1 st quarter	2 nd quarter	3 rd quarter	4 th quarter	1 st quarte	r	2 nd quarte	er 3 ^{ro}	quarter
sampling period →	2011	2 quarter 2011	2011	2011	2012	.1	2 quart		2012
site # 1	34.6	47.6	84.2	36.7	32.9		50.8		48.2
site # 1	34.0	47.0	04.2	30.7	32.9		30.6)	46.2
site # 2	40.5	55.1	92.4	40.1	41.1		48.6		53.5
SILC # Z	40.5	55.1	72.4	70.1	71.1		40.0	,	55.5
site # 3	32.8	48.6	83.9	35.4	34.4		49.2	,	47.4
SILC # 3	34.0	40.0	65.9	33.4	34.4		49.2	-	⊣ /. ''
site # 4	38.7	48.1	91.7	47.8	33.5		46.7	,	51.5
SILC # 4	30.7	70.1	71.7	77.0	33.3		40.7		J1.J
quarterly average	36.7	49.9	88.1	40.0	35.5		48.8	2	50.2
quarterry average	30.7	49.9	00.1	40.0	33.3		40.0	,	50.2
‡running annual average	46.4	47.3	56.0	53.7	53.4		53.1		43.6
rummig amidai average	40.4	47.3	30.0	33.7	33.4		33.1	L	43.0
		hic	ghest compliance	level for first 3 c	uarters of 20	12 – 53	4	range = 4	3 6-53 4
Some people who drink wate	r containing trib								
or central nervous systems, a				2 Over many yea	is may exper	ichee pr	ODICIIIS WI	ui uicii iivci	, Kidileys,
HAA5 Summary	1	Ī		4 th anat-	1 st		and	erton ord	l anortan
$\frac{\text{HAA3 Summary}}{\text{sampling period}} \rightarrow$	1 st quarter	2 nd quarter	•	4 th quarter	1 st quarte	ar.	2 nd qua		quarter
	2011	2011	2011	2011	2012		2012		2012
site # 1	44.3	59.4	89.0	47.0	45.3		52.7	′	51.5
	20.0		22.0	27.2	42.2		4.7		39.0
site # 2	38.9	6.5	32.9	27.3	42.3	2.3		47.4	
	41.0	25.0	04.0	45.7	45.0	5.2 5		51.0 49	
site # 3	41.9	35.9	84.0	45.7	45.3		51.0	'	45.5
: II A	40.1	50.2	07.0	42.2	45.4		465	,	26.0
site # 4	40.1	58.3	87.0	43.2	45.4		46.7	′	26.0
	41.2	40.0	72.2	40.0	11 (49.5 40		40.5
quarterly average	41.3	40.0	73.2	40.8	44.6		49.5	'	40.5
İ	45.9	42.0	40.0	40.0	40.7		50.0	. 	42.0
[‡] running annual average	45.9	43.9	48.8	48.8	49.7		52.0	'	43.9
		h:	ghest compliance	level for first ?	l marters of 20	12 – 52	0	range = 4	3 0-52 0
Some people who drink wate	r containing hal								
				Zovei many yea	us may nave a	an mere	ascu 118K 0.	i getting can	CC1.
Disinfection By-Produ				T	1	1			
TTHMs		drinking water	ppb	80	N/A	qua	rterly	see table	no
(total trihalomethanes)	disinfection		 .	loc. avg. [‡]	3.7.1	ļ		below	
HAA5s		drinking water	ppb	60	N/A	quar	terly	see table	no
(five haloacetic acids)	disinfection	1		loc. avg. [‡]				below	
TTHM Summary	Site #1	Site #2	Site #3	Site #4	Site #5	Site	#6	Site #7	Site #8
sampling period						<u> </u>			
4th Quarter	34	41	35	41	36	3	5	38	39
[‡] locational average	34	41	35	41	36	3	5	38	39
						<u> </u>			
	<u></u>	hig	ghest compliance	level for fourth of	quarter 2012	= 41		range = 3	4 to 41
HAA5 Summary	Site #1	Site #2	Site #3	Site #4	Site #5		Site #6	Site #7	
sampling period	510 111	510 112	5.1.0 11.0	2.00 II I	510 115		210 110		51.0 110
4th Quarter	39	42	37	23	42		46	36	36
<u> </u>			-	-			-		
‡locational average	39	42	37	23	42		46	36	36
Ü									
		hic	ghest compliance	level for fourth	uarter 2012	= 46		range = 2	3 to 46
			-F					0	

Total Organic Carbon (TOC) (Table I. continued)

Total Organic Carbon (TOC) provides a medium for the formation of disinfection by-products, which include TTHMs and HAA5s. Removing TOC at the water treatment plant is important in reducing the potential for the formation of all disinfection by-products, both regulated and unregulated.

Date Sampled	River Water TOC	Treated Water TOC	% Removal Required (A)	% Removal Achieved (B)	Compliance Ratio (B/A)*
1/04/12	3.3 ppm	2.4 ppm	15.0	27.3	1.82
2/01/12	3.3 ppm	2.4 ppm	15.0	27.3	1.82
3/01/12	3.0 ppm	2.3 ppm	15.0	23.3	1.56
4/03/12	2.8 ppm	2.2 ppm	15.0	21.4	1.43
5/02/12	2.4 ppm	1.9 ppm	15.0	20.8	1.39
6/04/12	2.3 ppm	1.8 ppm	15.0	21.7	1.46
7/02/12	2.3 ppm	1.8 ppm	15.0	21.7	1.45
8/02/12	2.6 ppm	2.1 ppm	15.0	19.2	1.28
9/04/12	2.7 ppm	2.2 ppm	15.0	18.5	1.23
10/08/12	2.6 ppm	2.0 ppm	15.0	23.1	1.54
11/01/12	2.7 ppm	2.2 ppm	15.0	18.5	1.23
12/05/12	2.6 ppm	2.1 ppm	15.0	19.2	1.28

*Compliance is based, in part, upon the yearly average compliance ratio being equal to or > 1.0. In 2012, the average compliance ratio was 1.46.

Secondary Parameter	Date Sampled	Level Detected	Unit of Measurement	SMCL**
Calcium	1/11/12	37	ppm	N/A
Magnesium	1/11/12	11	ppm	N/A
Sodium	1/11/12	14	ppm	< 20 recommended
Total Hardness	1/11/12	136	ppm	N/A
Total Alkalinity	1/11/12	109	ppm	N/A
Conductivity	1/11/12	334	micromhos/cm	N/A
pН	1/11/12	7.1	pH units	6.5 - 8.5
Langelier Index	1/11/12	-0.7	N/A	N/A

^{**} Secondary Maximum Contaminant Level (SMCL) - a chemical contaminant in excess of this amount may affect aesthetic qualities and public acceptance. SMCLs are non-enforceable standards.

Table II. Unregulated Contaminants Detected

Unregulated contaminant monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

Radionuclides	Date Sampled	Level Detected	Unit of Measurement	Significance
Radon-222	1/09/95	47 (± 37)	pCi/l	see comments below

About radon: There is currently no federal regulation for radon in drinking water. Radon is a radioactive gas that you can't see, taste or smell. It is found all over the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water that contains radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (4pCi/l) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your state radon program or call EPA's Radon Hotline (1-800-SOS-RADON).

Inorganic Contaminants	Date Sampled	Level Detected	Unit of Measurement	SMCL
Aluminum	1/11/12	0.04	ppm	0.05-0.2
Bicarbonate	1/11/12	133	ppm	N/A
Chloride	1/11/12	10	ppm	250
Potassium	1/11/12	3	ppm	N/A
Silica	1/11/12	19	ppm	N/A
Strontium	1/11/12	0.23	ppm	N/A
Sulfate	1/11/12	50	ppm	250

The following three disinfection by-products are volatile organics that are not regulated individually but are included in total trihalomethanes:

Contaminant	Date Sampled	Level Detected	Unit of Measurement
Bromodichloromethane	5/09/12 and 8/30/12	7.8 and 10	ppb
Chlorodibromomethane	5/09/12 and 8/30/12	1.4 and 2.0	ppb
Chloroform	5/09/12 and 8/30/12	26 and 24	ppb

Table III. Regulated Contaminants Not Detected

Radionuclides – tested 7/28/08

Note: testing for uranium was not required because the result for gross alpha did not exceed the MCL of 15 pCi/l (see Table 1)

Microbiological Contaminants – tested throughout 2012, 70 routine distribution system samples per month

Escherichia coli

Inorganic Contaminants – all tested	1/11/12 unle	ess otherwise indicated (Ta	able III. Continued)			
Antimony	Cadmium		Iron		Nickel	
Asbestos (5/24/11)	Chromium	l	Lead		Selenium	
Barium	Copper		Manganese		Thallium	
Beryllium	Cyanide (1	/24/11)	Mercury			
Volatile Organic Contaminants (VO	OCs) – all tes	sted 5/09/12 and 8/30/12 u	nless otherwise indicated	l		
Benzene	1,1-Dichlo	roethene	Styrene		Toluene	
Carbon tetrachloride	cis-1,2-Dio	chloroethene	Tetrachloroethene		Vinyl chloride	
Chlorobenzene	trans-1,2-I	Dichloroethene	1,2,4-Trichlorobenzene)	Xylenes (ortho-, meta-, para-)	
1,2-Dichlorobenzene	Methylene	chloride	1,1,1-Trichloroethane		1,2-Dibromo-3-chloropropane	
1,4-Dichlorobenzene	1,2-Dichlo	ropropane	1,1,2-Trichloroethane		Total BTEX	
1,2-Dichloroethane	Ethylbenze	ene	Trichloroethene			
Synthetic Organic Contaminants (S	OCs) – all to	ested 2/21/12, 5/09/12, and	d 8/06/12 unless otherwis	se indicated		
2,4,-D (5/24/11, 8/08/11)		Dibromochloropropane (statewide waiver)		Hexachlorobenzene		
2,4,5-TP (Silvex) (5/24/11, 8/08/11)		Dinoseb (5/24/11, 8/08/11)		Hexachlorocyclopentadiene (HEX)		
Alachlor		Diquat (statewide waiver)		Lindane (gamma-BHC)		
Atrazine		Dioxin (2,3,7,8-TCDD) (statewide waiver)		Methoxychlor		
Benzo(a)pyrene (PAH)		Endothall (statewide waiver)		Oxamyl (Vydate) (5/26/11, 8/08/11)		
Carbofuran (5/26/11, 8/08/11)		Endrin		Polychlorinated biphenyls (PCB's) (8/08/05)		
Chlordane Eth		Ethylene dibromide (ED	OB) (statewide waiver)	Pentachloro	phenol (5/24/11, 8/08/11)	
Dalapon (5/24/11, 8/08/11)		Glyphosate (statewide w	Glyphosate (statewide waiver)		Fordon) (5/24/11, 8/08/11)	
Di(2-ethylhexyl)adipate		Heptachlor		Simazine		
Di(2-ethylhexyl)phthalate		Heptachlor epoxide		Toxaphene		

	ı	Table IV. Unre	egulated (Contamin	ants Not Detec	cted			
Unregulated contaminant me	onitoring	helps EPA to determine	e where certain	contaminants o	occur and whether it ne	eds to r	egulate those contaminants.		
Inorganic Contaminants –	all tested	1/11/12 unless otherwi	se indicated						
Carbonate		Molybdenum		Silver		Zinc			
Volatile Organic Contamin	Volatile Organic Contaminants (VOCs) – all tested 5/09/12 and 8/31/12 unless otherwise indicated								
Bromobenzene		1,3-Dichlorobenzene		1,2,3-Trichlor	ropropane	n-Prop	oylbenzene		
Bromoform		1,1-Dichloroethane		Bromochloro	methane	sec-Bu	ıtylbenzene		
Bromomethane		1,3-Dichloropropane		n-Butylbenze	ne	tert-B	utylbenzene		
1,2-Dibromoethane		2,2-Dichloropropane		Dichlorodiflu	oromethane	1,2,3-	Trichlorobenzene		
1		1,1-Dichloropropene		Trichlorofluo	romethane	1,2,4-	Trimethylbenzene		
Chloromethane		cis-1,3-Dichloropropene		Hexachlorobutadiene		1,3,5-Trimethylbenzene			
2-Chlorotoluene trans-1,3-Dichloro		trans-1,3-Dichloropro	pene	Isopropylbenzene		Methyl tert-Butyl Ether (MTBE)			
4-Chlorotoluene 1,1,1,		1,1,1,2-Tetrachloroethane		p-Isopropyltoluene					
Dibromomethane		1,1,2,2-Tetrachloroethane		Naphthalene					
Synthetic Organic Contam	inants (S	OCs) – all tested 2/21/	12, 5/09/12, and	1 8/06/12 unless	s otherwise indicated				
Aldrin		3-Hydroxycarbofuran (5	5/26/11, 8/08/11)	Aldicarb (Temik) (5/26/11, 8/08/11) I		Dichlo	orprop (5/24/11, 8/08/11)		
Butachlor		Methomyl (5/26/11, 8	8/08/11) Aldicarb Sulfone (5/26/11, 8/08/11)		Methiocarb (5/26/11, 8/08/11)				
Carbaryl (5/26/11, 8/08/11)		Metolachlor		Aldicarb Sulfoxide (5/26/11, 8/08/11)					
Dicamba (5/24/11, 8/08/11)		Metribuzin		Acifluorfen (8/08/05)					
Dieldrin		Propachlor		2,4-DB (5/24/11, 8/08/11)					
Unregulated Contaminant	Monitori	ing Rule 1 (UCMR1)	Contaminants -	- all tested 10/2	23/01, 1/02/02, 4/08/02	and 7/0	1/02		
Perchlorate		MTBE		2,4-Dinitrotol	luene	EPTC			
DCPA mono-acid Ni		Nitrobenzene		2,6-Dinitrotoluene		Molin	ate		
DCPA di-acid		Acetochlor		4-4'-DDE		Terba	cil		
Unregulated Contaminant	Monitori	ing Rule 2 (UCMR2)	Contaminants -	all tested 3/10	0/08, 6/30/08, 9/15/08 a	nd 12/1	5/08		
Dimethoate		4′,5,5′-HBB	BDE-99		BDE-153		2,4,6-Trinitrotoluene (TNT)		
Terbufos Sulfone	BDE-		BDE-100		1,3-Dinitrobenzene		RDX		

In Summary, analysis of Great Falls drinking water revealed no violations during 2012. Although some constituents were detected, the Environmental Protection Agency considers water to be safe at these levels. Furthermore, MCLs are set very stringently. To put this into perspective, for a given regulated contaminant a person would have to drink 2 liters of water every day at the MCL level for a lifetime for there to be a one-in-a-million chance of having a corresponding adverse health effect.